

WHAT IS CLAIMED IS:

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1. A method of an admission control device in a mobile communication system capable of providing a first communication that guarantees a predetermined quality and a second communication
10 that does not guarantee the predetermined quality at a mobile station, comprising:

a step of sending a notification of the predetermined quality to the admission control device by the mobile station when a request for the
15 first communication is made;

a step of calculating, by the admission control device, a reference quality admissible when a propagation quality is lowest at the mobile station; and

20 a step of determining, by the admission control device, whether to admit the request of the mobile station based on the reference quality.

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2. The method as claimed in claim 1, wherein in the step of calculating, the admission control device calculates an assignable radio
30 resource and calculates the reference quality based on the assignable radio resource.

3. The method as claimed in claim 2,
wherein the assignable radio resource is calculated
5 by subtracting a radio resource being used by
communications different from the first
communication from a total available radio resource.

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4. The method as claimed in claim 2,
wherein the assignable radio resource is calculated
by subtracting a radio resource assigned to
15 communications different from the first
communication from a total available radio resource,
said radio resource assigned to the communications
allowing the communications to have the lowest
propagation quality.

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5. The method as claimed in claim 1,
25 wherein
in the step of determining, the admission
control device admits the request of the mobile
station if the predetermined quality is less than or
equal to the reference quality.

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6. The method as claimed in claim 1,
wherein

the predetermined quality is in a range
from a lower limit to an upper limit; and

5 in the step of determining, the admission
control device admits the request of the mobile
station if the reference quality is in the range of
the predetermined quality.

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7. The method as claimed in claim 1,
further comprising:

15 a step of sending a notification of the
reference quality to the mobile station by the
admission control device if the predetermined
quality is greater than the reference quality.

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8. The method as claimed in claim 7,
wherein

25 the predetermined quality is in a range
from a lower limit to an upper limit; and

the mobile station changes the
predetermined quality to the reference quality if
the lower limit is less than or equal to the
30 reference quality, and changes the first
communication to the second communication if the
lower limit is higher than the reference quality.

9. The method as claimed in claim 1,
5 wherein the admission control device preferentially
assigns a radio resource to the first communication
rather than to the second communication.

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10. A mobile communication system
including a mobile station and an admission control
device for controlling admission of a request from
15 the mobile station, capable of providing a first
communication that guarantees a predetermined
quality and a second communication that does not
guarantees the predetermined quality, wherein
the mobile station includes a transmission
20 unit configured to send a notification of the
predetermined quality to the admission control
device when the mobile station requests the first
communication; and
the admission control device includes:
25 a calculation unit configured to calculate
a reference quality admissible when a propagation
quality is lowest at the mobile station; and
a determination unit configured to
determine whether to admit the request of the mobile
30 station based on the reference quality.

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11. A mobile station capable of requesting from an admission control device for a first communication that guarantees a predetermined quality and a second communication that does not guarantee the predetermined quality at the mobile station, comprising:

a transmission unit configured to send a notification of the predetermined quality to the admission control device when a request for the first communication is made; and

a modification unit configured to change the predetermined quality to a reference quality admissible when a propagation quality is lowest at the mobile station if the predetermined quality is less than or equal to the reference quality, and to change the first communication to the second communication if the predetermined quality is higher than the reference quality.

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12. An admission control device for controlling admission of a request from a mobile station for a first communication that guarantees a predetermined quality and a second communication that does not guarantee the predetermined quality, comprising:

a calculation unit configured to calculate a reference quality admissible when a propagation quality is lowest at the mobile station; and

a determination unit configured to

determine whether to admit the request of the mobile station based on the reference quality.

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13. The admission control device as claimed in claim 12, wherein the calculation unit calculates an assignable radio resource and
10 calculates the reference quality based on the assignable radio resource.

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14. The admission control device as claimed in claim 13, further comprising a measurement unit configured to measure a radio resource being used by communications different from
20 the first communication;

wherein

the calculation unit calculates the assignable radio resource by subtracting the used radio resource from a total available radio resource.

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15. The admission control device as
30 claimed in claim 13, wherein the calculation unit calculates the assignable radio resource by subtracting a radio resource assigned to communications different from the first

communication from a total available radio resource,
said radio resource assigned to the communications
allowing the communications to have the lowest
propagation quality.

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16. The admission control device as
10 claimed in claim 12, wherein
the determination unit determines to admit
the request of the mobile station if the
predetermined quality is less than or equal to the
reference quality.

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17. The admission control device as
20 claimed in claim 12, wherein
the predetermined quality is in a range
from a lower limit to an upper limit; and
the determination unit determines to admit
the request of the mobile station if the reference
25 quality is in the range of the predetermined quality.

18. The admission control device as
30 claimed in claim 12, further comprising:
a transmission unit configured to send a
notification of the reference quality to the mobile

station if the predetermined quality is greater than the reference quality.

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19. The admission control device as claimed in claim 12, wherein the determination unit preferentially assigns a radio resource to the first
10 communication rather than to the second communication.

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20. A program for admission control of a request from a mobile station for a first communication that guarantees a predetermined quality and a second communication that does not
20 guarantee the predetermined quality at a mobile station, comprising the steps of:

 sending a notification of the predetermined quality to an admission control device when the first communication is requested; and
25 changing the predetermined quality to a reference quality admissible when a propagation quality is lowest at the mobile station if the predetermined quality is less than or equal to the reference quality, and changing the first
30 communication to the second communication if the predetermined quality is higher than the reference quality.

21. A program for operating an admission
5 control device that controls admission of a request
from a mobile station for a first communication
guaranteeing a predetermined quality and a second
communication not guaranteeing the predetermined
quality, comprising the steps of:
10 calculating a reference quality admissible
when a propagation quality is lowest at the mobile
station; and
determining whether to admit the request
of the mobile station based on the reference quality.

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